

Wednesday, August 16, 2017

Attn: Mr. Keith Gammell Barnhardt Mfg. Co. 247 Main Rd P.O. Box 3 Colrain, MA 01340

Project ID: AUGUST NEPDES 2017

Sample ID#s: BY81766

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301 CT Lab Registration #PH-0618 MA Lab Registration #M-CT007

ME Lab Registration #CT-007

NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003 NY Lab Registration #11301 PA Lab Registration #68-03530 RI Lab Registration #63

VT Lab Registration #VT11301



587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 16, 2017

FOR: Attn: Mr. Keith Gammell

Barnhardt Mfg. Co.

247 Main Rd P.O. Box 3

Colrain, MA 01340

Sample Information

WASTE WATER

STE WATER Co

Collected by: Received by:

Laboratory Data

Custody Information

08/09/17

Date

7:00

Location Code:

BARNHARD

Analyzad by

LB

08/09/17 16:17

Rush Request: P.O.#:

Matrix:

Standard G9085 Analyzed by:

see "By" below

SDG ID: GBY81766

Phoenix ID: BY81766

Project ID:

AUGUST NEPDES 2017

Client ID:

EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	n Date/Time	Ву	Reference
Copper	0.033	0.003	mg/L	1	08/15/17	LK	E200.7
B.O.D./5 day	< 4.4	4.4	mg/L	3	08/09/17 17:45	RVM/RM	1 SM5210B-01,-11
C.O.D.	206	10	mg/L	1	08/10/17	KH	SM5220D-97,-11
Ammonia as Nitrogen	0.48	0.10	mg/L	2	08/15/17	WHM	E350.1
Nitrite-N	0.037	0.010	mg/L	1	08/10/17 19:17	MI	E353.2
Nitrate-N	25.4	0.40	mg/L	20	08/10/17 19:21	MI	E353.2
Phenolics	< 0.015	0.015	mg/L	1	08/10/17	BS	E420.4
Nitrogen Tot Kjeldahl	10.3	0.20	mg/L	2	08/15/17	WHM	E351.1
Phosphorus, as P	5.03	0.10	mg/L	10	08/14/17	JR	SM4500PE-99,-11
Total Suspended Solids	12	5.0	mg/L	1	08/10/17	CR/SD	SM2540D-97,-11
Total Metals Digestion	Completed				08/14/17	T/B/BF	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

August 16, 2017

Reviewed and Released by: Deb Lawrie, Project Manager



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QA/QC Report

August 16, 2017

QA/QC Data

SDG I.D.: GBY81766

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 397655 (mg/L), C	ΩC Sam _l	ole No: E	3Y82053	(BY817 <i>6</i>	66)								
ICP Metals - Aqueous													
Copper	BRL	0.0025	0.005	0.0049	NC	109			105			75 - 125	20



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QA/QC Report

August 16, 2017

QA/QC Data

SDG I.D.: GBY81766

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 397227 (mg/L), 0	C Samp	ole No:	BY80643	(BY817	66)								
Phenolics	BRL	0.015	< 0.015	< 0.015	NC	102			95.0			90 - 110	20
QA/QC Batch 397250 (mg/L), (C Samp	ole No:	BY80840	(BY817	66)								
C.O.D.	BRL	10	219	219	0	113			98.5			85 - 115	20
Comment:													
Additional: LCS acceptance range	is 85-11	5% MS	acceptance	e range 7	5-125%								
QA/QC Batch 397213 (mg/L), 0	C Samp	ole No:	BY81278	(BY817	66)								
Total Suspended Solids	BRL	5.0	< 5.0	< 5.0	NC	92.0						85 - 115	
QA/QC Batch 397091 (mg/L), 0	2C Samp	ole No:	BY81684	(BY817	66)								
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	88.3			110			70 - 130	20
QA/QC Batch 397324 (mg/L), 0	C Samp	ole No:	BY81711	(BY817	66)								
Nitrate-N	BRL	0.02	< 0.02	< 0.02	NC	101			101			90 - 110	20
Nitrite-N	BRL	0.01	0.026	0.03	NC	106			101			90 - 110	20
QA/QC Batch 397559 (mg/L), (2C Samp	ole No:	BY81713	(BY817	66)								
Phosphorus, as P	BRL	0.01	2.82	2.73	3.20	104			93.1			85 - 115	20
Comment:													
Additional: LCS acceptance range	e is 85-11	5% MS	acceptance	e range 7	5-125%								
QA/QC Batch 397666 (mg/L), (C Samp	ole No:	BY81764	(BY817	66)								
Ammonia as Nitrogen	BRL	0.05	30.1	31.3	3.90	104			108			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	47.4	48.6	2.50	104			104			85 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis/Shiller, Laboratory Director

August 16, 2017

Wednesday, August 16, 2017

Sample Criteria Exceedances Report

GBY81766 - BARNHARD

RLAnalysis SampNo Acode Phoenix Analyte Criteria Result RL Criteria Criteria Units

Criteria: None

State: MA

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

^{***} No Data to Display ***



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Analysis Comments

August 16, 2017 SDG I.D.: GBY81766

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

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		<u>-</u>		딩	CHAIN OF CL	JSTODY	OF CUSTODY RECORD		Temp	UKG Pg	of	
PHOENK	18 18 XXVIII	Inc.		587 East N Email	587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040 Email: info@phoenixlabs.com Fax (860) 645-0823 Client Services (860) 645-8726	o.O. Box 370, I bs.com Fa :es (860) (Manchester, CT C × (860) 645-0823 345-8726	<u> </u>	Data Delivery:	S Am me	Hernhard (2)	the st.
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Matrix Code: Date: 8/4/II Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil B=Bulk L=Liquid	Water SW=Surfe	ace Water I SD=Solid	Date: 2/4 WW=Waste \	Water	Request	S. S	No. 3 II		Olego Tels	<i>ૺૹ૽ૺૣૹ૽ૺૣ૾</i>	Libos Libos	
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